

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☐ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☒ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☐ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other: \_\_\_\_\_

**Applicant Must Provide:**

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☐ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

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1645

## RAW SEQUENCE LISTING

DATE: 07/02/2001

PATENT APPLICATION: US/09/446,677B

TIME: 14:51:17

Input Set : A:\BIRKELUND1.txt

Output Set: N:\CRF3\07022001\I446677B.raw

**ENTERED**

## SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: BIRKELUND, Svend

6 CHRISTIANSEN, Gunna

7 HEBGAARD PEDERSEN, Anna-Sofie

8 MYGIND, Per

9 KNUDSEN, Katrine

11 (ii) TITLE OF INVENTION: SURFACE EXPOSED PROTEINS FROM CHLAMYDIA

12 PNEUMONIAE

14 (iii) NUMBER OF SEQUENCES: 30

16 (iv) CORRESPONDENCE ADDRESS:

17 (A) ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.

18 (B) STREET: 624 Ninth Street, N.W., Suite 300

19 (C) CITY: Washington

20 (D) STATE: D.C.

21 (E) COUNTRY: USA

22 (F) ZIP: 20001

24 (v) COMPUTER READABLE FORM:

25 (A) MEDIUM TYPE: Floppy disk

26 (B) COMPUTER: IBM PC compatible

27 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

28 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

30 (vi) CURRENT APPLICATION DATA:

C--> 31 (A) APPLICATION NUMBER: US/09/446,677B

C--> 32 (B) FILING DATE: 24-Mar-2000

C--> 38 (vii) PRIOR APPLICATION DATA:

35 (A) APPLICATION NUMBER: PCT/DK98/00266

36 (B) FILING DATE: 19-JUN-1998

39 (A) APPLICATION NUMBER: DK 0744/97

40 (B) FILING DATE: 23-JUN-1997

42 (viii) ATTORNEY/AGENT INFORMATION:

43 (A) NAME: COOPER, Iver P.

44 (B) REGISTRATION NUMBER: 28,005

45 (C) REFERENCE/DOCKET NUMBER: BIRKELUND=1

47 (ix) TELECOMMUNICATION INFORMATION:

48 (A) TELEPHONE: 202-628-5197

49 (B) TELEFAX: 202-737-3528

51 (2) INFORMATION FOR SEQ ID NO: 1:

53 (i) SEQUENCE CHARACTERISTICS:

54 (A) LENGTH: 3200 base pairs

55 (B) TYPE: nucleic acid

56 (C) STRANDEDNESS: single

57 (D) TOPOLOGY: linear

59 (ii) MOLECULE TYPE: cDNA

61 (ix) FEATURE:

62 (A) NAME/KEY: Coding Sequence

63 (B) LOCATION: 205...2988

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64          (D) OTHER INFORMATION:
66      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
68 CAATGTCGAA GAGAGCACTA ACCAGGAAAA TTGCGATTTC ATAAACCCAC TTTATTATTA      60
69 AATTCTTACT TGCATCATAT AAAATAGAAA ACTCAGAGAG TCAAGATAAA AATTCTTGAC      120
70 AGCTGTTTTG TCATCTTTAA CTTGATTAC TTATTTTGTT TCTATATTGA TGCGAATAGT      180
71 TCTCTAAAAA ACAAAGCAT TACC ATG AAG ACT TCG ATT CCT TGG GTT TTA      231
72                               Met Lys Thr Ser Ile Pro Trp Val Leu
73                               1           5
75 GTT TCC TCC GTG TTA GCT TTC TCA TGT CAC CTA CAG TCA CTA GCT AAC      279
76 Val Ser Ser Val Leu Ala Phe Ser Cys His Leu Gln Ser Leu Ala Asn
77 10           15           20           25
79 GAG GAA CTT TTA TCA CCT GAT GAT AGC TTT AAT GGA AAT ATC GAT TCA      327
80 Glu Glu Leu Leu Ser Pro Asp Asp Ser Phe Asn Gly Asn Ile Asp Ser
81           30           35           40
83 GGA ACG TTT ACT CCA AAA ACT TCA GCC ACA ACA TAT TCT CTA ACA GGA      375
84 Gly Thr Phe Thr Pro Lys Thr Ser Ala Thr Thr Tyr Ser Leu Thr Gly
85           45           50           55
87 GAT GTC TTC TTT TAC GAG CCT GGA AAA GGC ACT CCC TTA TCT GAC AGT      423
88 Asp Val Phe Phe Tyr Glu Pro Gly Lys Gly Thr Pro Leu Ser Asp Ser
89           60           65           70
91 TGT TTT AAG CAA ACC ACG GAC AAT CTT ACC TTC TTG GGG AAC GGT CAT      471
92 Cys Phe Lys Gln Thr Thr Asp Asn Leu Thr Phe Leu Gly Asn Gly His
93           75           80           85
95 AGC TTA ACG TTT GGC TTT ATA GAT GCT GGC ACT CAT GCA GGT GCT GCT      519
96 Ser Leu Thr Phe Gly Phe Ile Asp Ala Gly Thr His Ala Gly Ala Ala
97 90           95           100           105
99 GCA TCT ACA ACA GCA AAT AAG AAT CTT ACC TTC TCA GGG TTT TCC TTA      567
100 Ala Ser Thr Thr Ala Asn Lys Asn Leu Thr Phe Ser Gly Phe Ser Leu
101           110           115           120
103 CTG AGT TTT GAT TCC TCT CCT AGC ACA ACG GTT ACT ACA GGT CAG GGA      615
104 Leu Ser Phe Asp Ser Ser Pro Ser Thr Thr Val Thr Thr Gly Gln Gly
105           125           130           135
107 ACG CTT TCC TCA GCA GGA GGC GTA AAT TTA GAA AAT ATT CGT AAA CTT      663
108 Thr Leu Ser Ser Ala Gly Gly Val Asn Leu Glu Asn Ile Arg Lys Leu
109           140           145           150
111 GTA GTT GCT GGG AAT TTT TCT ACT GCA GAT GGT GGA GCT ATC AAA GGA      711
112 Val Val Ala Gly Asn Phe Ser Thr Ala Asp Gly Gly Ala Ile Lys Gly
113           155           160           165
117 GCG TCT TTC CTT TTA ACT GGC ACT TCT GGA GAT GCT CTT TTT AGT AAC      759
118 Ala Ser Phe Leu Leu Thr Gly Thr Ser Gly Asp Ala Leu Phe Ser Asn
119 170           175           180           185
121 AAC TCT TCA TCA ACA AAG GGA GGA GCA ATT GCT ACT ACA GCA GGC GCT      807
122 Asn Ser Ser Ser Thr Lys Gly Gly Ala Ile Ala Thr Thr Ala Gly Ala
123           190           195           200
125 CGC ATA GCA AAT AAC ACA GGT TAT GTT AGA TTC CTA TCT AAC ATA GCG      855
126 Arg Ile Ala Asn Asn Thr Gly Tyr Val Arg Phe Leu Ser Asn Ile Ala
127           205           210           215
129 TCT ACG TCA GGA GGC GCT ATC GAT GAT GAA GGC ACG TCG ATA CTA TCG      903
130 Ser Thr Ser Gly Gly Ala Ile Asp Asp Glu Gly Thr Ser Ile Leu Ser

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131	220	225	230	
133	AAC AAC AAA TTT CTA TAT TTT GAA GGG AAT GCA GCG AAA ACT ACT GGC	951		
134	Asn Asn Lys Phe Leu Tyr Phe Glu Gly Asn Ala Ala Lys Thr Thr Gly			
135	235 240 245			
137	GGT GCG ATC TGC AAC ACC AAG GCG AGT GGA TCT CCT GAA CTG ATA ATC	999		
138	Gly Ala Ile Cys Asn Thr Lys Ala Ser Gly Ser Pro Glu Leu Ile Ile			
139	250 255 260 265			
141	TCT AAC AAT AAG ACT CTG ATC TTT GCT TCA AAC GTA GCA GAA ACA AGC	1047		
142	Ser Asn Asn Lys Thr Leu Ile Phe Ala Ser Asn Val Ala Glu Thr Ser			
143	270 275 280			
145	GGT GGC GCC ATC CAT GCT AAA AAG CTA GCC CTT TCC TCT GGA GGC TTT	1095		
146	Gly Gly Ala Ile His Ala Lys Lys Leu Ala Leu Ser Ser Gly Gly Phe			
147	285 290 295			
149	ACA GAG TTT CTA CGA AAT AAT GTC TCA TCA GCA ACT CCT AAG GGG GGT	1143		
150	Thr Glu Phe Leu Arg Asn Asn Val Ser Ser Ala Thr Pro Lys Gly Gly			
151	300 305 310			
153	GCT ATC AGC ATC GAT GCC TCA GGA GAG CTC AGT CTT TCT GCA GAG ACA	1191		
154	Ala Ile Ser Ile Asp Ala Ser Gly Glu Leu Ser Leu Ser Ala Glu Thr			
155	315 320 325			
157	GGA AAC ATT ACC TTT GTA AGA AAT ACC CTT ACA ACA ACC GGA AGT ACC	1239		
158	Gly Asn Ile Thr Phe Val Arg Asn Thr Leu Thr Thr Thr Gly Ser Thr			
159	330 335 340 345			
161	GAT ACT CCT AAA CGT AAT GCG ATC AAC ATA GGA AGT AAC GGG AAA TTC	1287		
162	Asp Thr Pro Lys Arg Asn Ala Ile Asn Ile Gly Ser Asn Gly Lys Phe			
163	350 355 360			
165	ACG GAA TTA CGG GCT GCT AAA AAT CAT ACA ATT TTC TTC TAT GAT CCC	1335		
166	Thr Glu Leu Arg Ala Ala Lys Asn His Thr Ile Phe Phe Tyr Asp Pro			
167	365 370 375			
169	ATC ACT TCA GAA GGA ACC TCA TCA GAC GTA TTG AAG ATA AAT AAC GGC	1383		
170	Ile Thr Ser Glu Gly Thr Ser Ser Asp Val Leu Lys Ile Asn Asn Gly			
171	380 385 390			
175	TCT GCG GGA GCT CTC AAT CCA TAT CAA GGA ACG ATT CTA TTT TCT GGA	1431		
176	Ser Ala Gly Ala Leu Asn Pro Tyr Gln Gly Thr Ile Leu Phe Ser Gly			
177	395 400 405			
179	GAA ACC CTA ACA GCA GAT GAA CTT AAA GTT GCT GAC AAT TTA AAA TCT	1479		
180	Glu Thr Leu Thr Ala Asp Glu Leu Lys Val Ala Asp Asn Leu Lys Ser			
181	410 415 420 425			
183	TCA TTC ACG CAG CCA GTC TCC CTA TCC GGA GGA AAG TTA TTG CTA CAA	1527		
184	Ser Phe Thr Gln Pro Val Ser Leu Ser Gly Gly Lys Leu Leu Leu Gln			
185	430 435 440			
187	AAG GGA GTC ACT TTA GAG AGC ACG AGC TTC TCT CAA GAG GCC GGT TCT	1575		
188	Lys Gly Val Thr Leu Glu Ser Thr Ser Phe Ser Gln Glu Ala Gly Ser			
189	445 450 455			
191	CTC CTC GGC ATG GAT TCA GGA ACG ACA TTA TCA ACT ACA GCT GGG AGT	1623		
192	Leu Leu Gly Met Asp Ser Gly Thr Thr Leu Ser Thr Thr Ala Gly Ser			
193	460 465 470			
195	ATT ACA ATC ACG AAC CTA GGA ATC AAT GTT GAC TCC TTA GGT CTT AAG	1671		
196	Ile Thr Ile Thr Asn Leu Gly Ile Asn Val Asp Ser Leu Gly Leu Lys			
197	475 480 485			

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199	CAG	CCC	GTC	AGC	CTA	ACA	GCA	AAA	GGT	GCT	TCA	AAT	AAA	GTG	ATC	GTA	1719
200	Gln	Pro	Val	Ser	Leu	Thr	Ala	Lys	Gly	Ala	Ser	Asn	Lys	Val	Ile	Val	
201	490					495					500					505	
203	TCT	GGG	AAG	CTC	AAC	CTG	ATT	GAT	ATT	GAA	GGG	AAC	ATT	TAT	GAA	AGT	1767
204	Ser	Gly	Lys	Leu	Asn	Leu	Ile	Asp	Ile	Glu	Gly	Asn	Ile	Tyr	Glu	Ser	
205					510					515					520		
207	CAT	ATG	TTC	AGC	CAT	GAC	CAG	CTC	TTC	TCT	CTA	TTA	AAA	ATC	ACG	GTT	1815
208	His	Met	Phe	Ser	His	Asp	Gln	Leu	Phe	Ser	Leu	Leu	Lys	Ile	Thr	Val	
209					525					530					535		
211	GAT	GCT	GAT	GTT	GAT	ACT	AAC	GTT	GAC	ATC	AGC	AGC	CTT	ATC	CCT	GTT	1863
212	Asp	Ala	Asp	Val	Asp	Thr	Asn	Val	Asp	Ile	Ser	Ser	Leu	Ile	Pro	Val	
213			540						545					550			
215	CCT	GCT	GAG	GAT	CCT	AAT	TCA	GAA	TAC	GGA	TTC	CAA	GGA	CAA	TGG	AAT	1911
216	Pro	Ala	Glu	Asp	Pro	Asn	Ser	Glu	Tyr	Gly	Phe	Gln	Gly	Gln	Trp	Asn	
217		555					560					565					
219	GTT	AAT	TGG	ACT	ACG	GAT	ACA	GCT	ACA	AAT	ACA	AAA	GAG	GCC	ACG	GCA	1959
220	Val	Asn	Trp	Thr	Thr	Asp	Thr	Ala	Thr	Asn	Thr	Lys	Glu	Ala	Thr	Ala	
221	570					575					580					585	
223	ACT	TGG	ACC	AAA	ACA	GGA	TTT	GTT	CCC	AGC	CCC	GAA	AGA	AAA	TCT	CGC	2007
224	Thr	Trp	Thr	Lys	Thr	Gly	Phe	Val	Pro	Ser	Pro	Glu	Arg	Lys	Ser	Ala	
225					590					595					600		
227	TTA	GTA	TGC	AAT	ACC	CTA	TGG	GGA	GTC	TTT	ACT	GAC	ATT	CGC	TCT	CTG	2055
228	Leu	Val	Cys	Asn	Thr	Leu	Trp	Gly	Val	Phe	Thr	Asp	Ile	Arg	Ser	Leu	
229				605					610					615			
233	CAA	CAG	CTT	GTA	GAG	ATC	GGC	GCA	ACT	GGT	ATG	GAA	CAC	AAA	CAA	GGT	2103
234	Gln	Gln	Leu	Val	Glu	Ile	Gly	Ala	Thr	Gly	Met	Glu	His	Lys	Gln	Gly	
235			620					625						630			
237	TTC	TGG	GTT	TCC	TCC	ATG	ACG	AAC	TTC	CTG	CAT	AAG	ACT	GGA	GAT	GAA	2151
238	Phe	Trp	Val	Ser	Ser	Met	Thr	Asn	Phe	Leu	His	Lys	Thr	Gly	Asp	Glu	
239		635				640						645					
241	AAT	CGC	AAA	GGC	TTC	CGT	CAT	ACC	TCT	GGA	GGC	TAC	GTC	ATC	GGT	GGA	2199
242	Asn	Arg	Lys	Gly	Phe	Arg	His	Thr	Ser	Gly	Gly	Tyr	Val	Ile	Gly	Gly	
243	650					655					660					665	
245	AGT	GCT	CAC	ACT	CCT	AAA	GAC	GAC	CTA	TTT	ACC	TTT	GCG	TTC	TGC	CAT	2247
246	Ser	Ala	His	Thr	Pro	Lys	Asp	Asp	Leu	Phe	Thr	Phe	Ala	Phe	Cys	His	
247					670					675					680		
249	CTC	TTT	GCT	AGA	GAC	AAA	GAT	TGT	TTT	ATC	GCT	CAC	AAC	AAC	TCT	AGA	2295
250	Leu	Phe	Ala	Arg	Asp	Lys	Asp	Cys	Phe	Ile	Ala	His	Asn	Asn	Ser	Arg	
251				685					690					695			
253	ACC	TAC	GGT	GGA	ACT	TTA	TTC	TTC	AAG	CAC	TCT	CAT	ACC	CTA	CAA	CCC	2343
254	Thr	Tyr	Gly	Gly	Thr	Leu	Phe	Phe	Lys	His	Ser	His	Thr	Leu	Gln	Pro	
255			700					705						710			
257	CAA	AAC	TAT	TTG	AGA	TTA	GGA	AGA	GCA	AAG	TTT	TCT	GAA	TCA	GCT	ATA	2391
258	Gln	Asn	Tyr	Leu	Arg	Leu	Gly	Arg	Ala	Lys	Phe	Ser	Glu	Ser	Ala	Ile	
259		715					720							725			
261	GAA	AAA	TTC	CCT	AGG	GAA	ATT	CCC	CTA	GCC	TTG	GAT	GTC	CAA	GTT	TCG	2439
262	Glu	Lys	Phe	Pro	Arg	Glu	Ile	Pro	Leu	Ala	Leu	Asp	Val	Gln	Val	Ser	
263	730					735					740					745	
265	TTC	AGC	CAT	TCA	GAC	AAC	CGT	ATG	GAA	ACG	CAC	TAT	ACC	TCA	TTG	CCA	2487

## RAW SEQUENCE LISTING

DATE: 07/02/2001

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Input Set : A:\BIRKELUND1.txt

Output Set: N:\CRF3\07022001\I446677B.raw

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266 Phe Ser His Ser Asp Asn Arg Met Glu Thr His Tyr Thr Ser Leu Pro
267          750          755          760
269 GAA TCC GAA GGT TCT TGG AGC AAC GAG TGT ATA GCT GGT GGT ATC GGC      2535
270 Glu Ser Glu Gly Ser Trp Ser Asn Glu Cys Ile Ala Gly Gly Ile Gly
271          765          770          775
273 CTA GAC CTT CCT TTT GTT CTT TCC AAC CCA CAT CCT CTT TTC AAG ACC      2583
274 Leu Asp Leu Pro Phe Val Leu Ser Asn Pro His Pro Leu Phe Lys Thr
275          780          785          790
277 TTC ATT CCA CAG ATG AAA GTC GAA ATG GTT TAT GTA TCA CAA AAT AGC      2631
278 Phe Ile Pro Gln Met Lys Val Glu Met Val Tyr Val Ser Gln Asn Ser
279          795          800          805
281 TTC TTC GAA AGC TCT AGT GAT GGC CGT GGT TTT AGT ATT GGA AGG CTG      2679
282 Phe Phe Glu Ser Ser Ser Asp Gly Arg Gly Phe Ser Ile Gly Arg Leu
283 810          815          820          825
285 CTT AAC CTC TCG ATT CCT GTG GGT GCG AAA TTC GTG CAG GGG GAT ATC      2727
286 Leu Asn Leu Ser Ile Pro Val Gly Ala Lys Phe Val Gln Gly Asp Ile
287          830          835          840
291 GGA GAT TCC TAC ACC TAT GAT CTC TCA GGA TTC TTT GTT TCC GAT GTC      2775
292 Gly Asp Ser Tyr Thr Tyr Asp Leu Ser Gly Phe Phe Val Ser Asp Val
293          845          850          855
295 TAT CGT AAC AAT CCC CAA TCT ACA GCG ACT CTT GTG ATG AGC CCA GAC      2823
296 Tyr Arg Asn Asn Pro Gln Ser Thr Ala Thr Leu Val Met Ser Pro Asp
297          860          865          870
299 TCT TGG AAA ATT CGC GGT GGC AAT CTT TCA AGA CAG GCA TTT TTA CTG      2871
300 Ser Trp Lys Ile Arg Gly Gly Asn Leu Ser Arg Gln Ala Phe Leu Leu
301          875          880          885
303 AGG GGT AGC AAC AAC TAC GTC TAC AAC TCC AAT TGT GAG CTC TTC GGA      2919
304 Arg Gly Ser Asn Asn Tyr Val Tyr Asn Ser Asn Cys Glu Leu Phe Gly
305 890          895          900          905
307 CAT TAC GCT ATG GAA CTC CGT GGA TCT TCA AGG AAC TAC AAT GTA GAT      2967
308 His Tyr Ala Met Glu Leu Arg Gly Ser Ser Arg Asn Tyr Asn Val Asp
309          910          915          920
311 GTT GGT ACC AAA CTC CGA TTC TAGATTGCTA AAACCTCCCTA GTTCTTCTAG GGAG      3022
312 Val Gly Thr Lys Leu Arg Phe
313          925
315 TTTTCTCATA CTTTtaggga AATATTTGCT ATAGGGAATG CTTTCCTTGC AAACGTGAAA      3082
316 AAATAACATT TGTCCTCTT CAAAAAAGAT TTCTTTTAAT AATTTCTAGT TATAATTTTA      3142
317 TTTTAAAAAC AGTTAAATAA TTAATAGACA ATAATCTATT CTTATTGACT TCTTTTTT      3200
319 (2) INFORMATION FOR SEQ ID NO: 2:
321     (i) SEQUENCE CHARACTERISTICS:
322         (A) LENGTH: 928 amino acids
323         (B) TYPE: amino acid
324         (C) STRANDEDNESS: single
325         (D) TOPOLOGY: linear
327     (ii) MOLECULE TYPE: protein
329     (v) FRAGMENT TYPE: internal
331     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
333 Met Lys Thr Ser Ile Pro Trp Val Leu Val Ser Ser Val Leu Ala Phe
334 1          5          10          15

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## VERIFICATION SUMMARY

DATE: 07/02/2001

PATENT APPLICATION: US/09/446,677B

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Input Set : A:\BIRKELUND1.txt

Output Set: N:\CRF3\07022001\I446677B.raw

L:31 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:32 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:38 M:220 C: Keyword misspelled or invalid format, [(vii) PRIOR APPLICATION DATA:]  
L:2475 M:220 C: Keyword misspelled or invalid format, [(ii) MOLECULE TYPE:]